

Name: _____

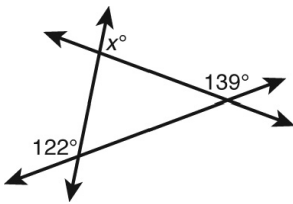
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- _____ 6) Describe the transformation $M: (x, y) \rightarrow (-y, x)$.
- a) A reflection across the y -axis.
 - b) A reflection across the x -axis.
 - c) a rotation 90° clockwise with center of rotation $(0, 0)$
 - d) a rotation 90° counterclockwise with center of rotation $(0, 0)$

- _____ 7) Which best describes $\triangle ABC$ with vertices $A(-2, 1)$, $B(0, 4)$, and $C(2, 1)$?
- a) acute
 - b) equiangular
 - c) obtuse
 - d) right

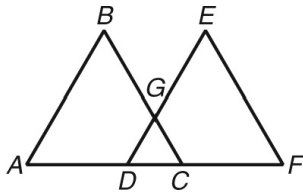
- _____ 8) Which is a correct classification of $\triangle DEF$ with vertices $D(-3, -2)$, $E(2, 3)$, and $F(1, 0)$?
- a) equilateral
 - b) isosceles
 - c) scalene
 - d) Not here

- _____ 9) What is the value of x ?

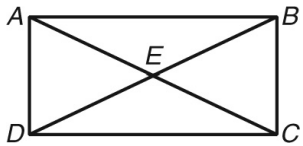



- a) 41
 - b) 58
 - c) 99
 - d) 122
- _____ 10) $\triangle QRS \cong \triangle STQ$, $QS = x^2 - 10$ and $SQ = -2x - 2$. What is the value of x ?
- a) -4
 - b) -2
 - c) 2
 - d) 4

_____ 11) $\triangle ABC \cong \triangle DEF$. What information is NOT needed to find the perimeter of $\triangle ABC$ if you are given all four lengths below?

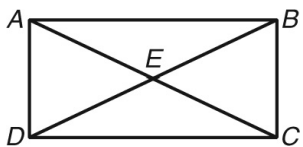



- a) DE
b) BG



_____ 12)  $AB = y + 3$, $DC = 3y + 1$, $EB = 3y - 1$, $ED = y + 1$, $AE = y$, $CE = 2y$. What value of y proves $\triangle AEB \cong \triangle CED$ by the SSS Postulate?

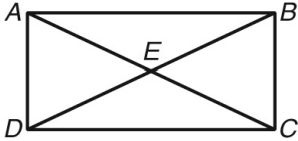
- a) -2 c) 1
b) -1 d) 2



13) 

What information would allow you to prove $\triangle AED \cong \triangle CEB$ by SAS?

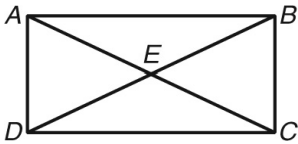
- E is the midpoint of \overline{DB} .
- E is the midpoint of \overline{AC} .
- E bisects \overline{AC} .
- E bisects both \overline{DB} and \overline{AC} .



____ 14)

If $\angle ADC$ and $\angle ABC$ are right angles, $AC = BD$, and $AB = DC$, which postulate or theorem proves $\triangle ABC \cong \triangle CDA$?

- | | |
|--------|--------|
| a) SSS | c) ASA |
| b) SAS | d) HL |



____ 15)

If $\overline{AD} \parallel \overline{BC}$ and $\angle ABD \cong \angle CDB$, which postulate or theorem could be used to prove $\triangle ABD \cong \triangle CDB$?

- | | |
|--------|--------|
| a) SAS | c) SSS |
| b) ASA | d) HL |

____ 16) Given: $\triangle ABC$ with vertices $A(5, -2)$, $B(5, -7)$, and $C(1, -2)$. Which set of coordinates best repositions the triangle to make a coordinate proof easier?

- | |
|---|
| a) $(0, 0)$, $(4, 0)$, and $(4, -5)$ |
| b) $(0, 0)$, $(-4, 0)$, and $(0, -5)$ |
| c) $(0, 0)$, $(0, 4)$, and $(5, 0)$ |
| d) $(0, 0)$, $(4, 0)$, and $(0, -5)$ |

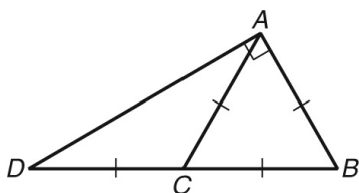
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_____ 17) If the height of a right triangle is n units and the base is m units, which statement is NOT true?

- a) The midpoint of the hypotenuse is (m, n) .
- b) $A(0, 0)$, $B(m, 0)$, and $C(0, n)$ can represent the vertices.
- c) The midpoint of the hypotenuse is $\left(\frac{m}{2}, \frac{n}{2}\right)$.
- d) The slope of the hypotenuse is $-\frac{n}{m}$.

_____ 18) What is $m\angle DAC$?



- a) 30°
- b) 45°
- c) 60°
- d) Not here

Geometry Chapter 4 Practice Test

Answer Section

MULTIPLE CHOICE

- 1) ANS: D PTS: 1 DIF: 2 TOP: Cumulative Test, Chapter 4
MSC: DOK 2
- 2) ANS: B PTS: 1 DIF: 2 TOP: Cumulative Test, Chapter 4
MSC: DOK 1
- 3) ANS: C PTS: 1 DIF: 2 TOP: Cumulative Test, Chapter 4
MSC: DOK 2
- 4) ANS: C PTS: 1 DIF: 2 TOP: Cumulative Test, Chapter 4
MSC: DOK 2
- 5) ANS: B PTS: 1 DIF: 2 TOP: Cumulative Test, Chapter 4
MSC: DOK 2
- 6) ANS: D PTS: 1 DIF: 2 NAT: NT.CCSS.MTH.10.9-12.G.CO.6
TOP: Chapter 4 Multiple Choice Test, Form C MSC: DOK 2
- 7) ANS: A PTS: 1 DIF: 2 MSC: DOK 2
TOP: Chapter 4 Multiple Choice Test, Form C
- 8) ANS: C PTS: 1 DIF: 2 MSC: DOK 2
TOP: Chapter 4 Multiple Choice Test, Form C
- 9) ANS: C PTS: 1 DIF: 2 MSC: DOK 2
TOP: Chapter 4 Multiple Choice Test, Form C
- 10) ANS: A PTS: 1 DIF: 2 NAT: NT.CCSS.MTH.10.9-12.G.SRT.5
TOP: Chapter 4 Multiple Choice Test, Form C MSC: DOK 2
- 11) ANS: B PTS: 1 DIF: 2 NAT: NT.CCSS.MTH.10.9-12.G.SRT.5
TOP: Chapter 4 Multiple Choice Test, Form C MSC: DOK 2
- 12) ANS: D PTS: 1 DIF: 2 NAT: NT.CCSS.MTH.10.9-12.G.CO.10 | NT.CCSS.MTH.10.9-12.G.SRT.5
TOP: Chapter 4 Multiple Choice Test, Form C MSC: DOK 2
- 13) ANS: D PTS: 1 DIF: 2 NAT: NT.CCSS.MTH.10.9-12.G.CO.10 | NT.CCSS.MTH.10.9-12.G.SRT.5
TOP: Chapter 4 Multiple Choice Test, Form C MSC: DOK 2
- 14) ANS: D PTS: 1 DIF: 2 NAT: NT.CCSS.MTH.10.9-12.G.CO.10 | NT.CCSS.MTH.10.9-12.G.SRT.5
TOP: Chapter 4 Multiple Choice Test, Form C MSC: DOK 2
- 15) ANS: B PTS: 1 DIF: 2 NAT: NT.CCSS.MTH.10.9-12.G.CO.10 | NT.CCSS.MTH.10.9-12.G.SRT.5
TOP: Chapter 4 Multiple Choice Test, Form C MSC: DOK 2
- 16) ANS: C PTS: 1 DIF: 2 NAT: NT.CCSS.MTH.10.9-12.G.CO.10 | NT.CCSS.MTH.10.9-12.G.SRT.5 |
NT.CCSS.MTH.10.9-12.G.GPE.4 TOP: Chapter 4 Multiple Choice Test, Form C
MSC: DOK 2
- 17) ANS: A PTS: 1 DIF: 2 MSC: DOK 2
TOP: Chapter 4 Multiple Choice Test, Form C
- 18) ANS: A PTS: 1 DIF: 2 NAT: NT.CCSS.MTH.10.9-12.G.SRT.5
TOP: Chapter 4 Multiple Choice Test, Form C MSC: DOK 2